

Title (en)  
METHOD AND APPARATUS AND PROGRAM STORAGE DEVICE ADAPTED FOR AUTOMATIC DRILL BIT SELECTION BASED ON EARTH PROPERTIES

Title (de)  
VERFAHREN UND VORRICHTUNG UND PROGRAMMSPEICHERVORRICHTUNG ZUR AUTOMATISCHEN BOHRMEISSELWAHL AUF GRUNDLAGE VON ERDEIGENSCHAFTEN

Title (fr)  
PROCEDE ET APPAREIL AINSI QUE DISPOSITIF DE STOCKAGE DE PROGRAMME CON US POUR LA SELECTION AUTOMATIQUE DE TREPANS EN FONCTION DE PROPRIETES DE LA TERRE

Publication  
**EP 1769135 B1 20100630 (EN)**

Application  
**EP 05725869 A 20050317**

Priority  
• US 2005009029 W 20050317  
• US 80250704 A 20040317

Abstract (en)  
[origin: WO2005090749A1] A bit selection method will generate and record or display a sequence of drill bits chosen from among a plurality of bit candidates adapted for drilling an Earth formation in response to input data representing Earth formation characteristics of the formation to be drilled by: comparing the input data representing the characteristics of the formation to be drilled with a set of historical data including a plurality of sets of Earth formation characteristics and a corresponding plurality of sequences of drill bits to be used in connection with the sets of Earth formation characteristics, and locating a substantial match between the characteristics of the formation to be drilled associated with the input data and at least one of the plurality of sets of Earth formation characteristics associated with the set of historical data; when the substantial match is found, generating one of the plurality of sequences of drill bits in response thereto; and recording or displaying the one of the plurality of sequences of drill bits on a recorder or display device.

IPC 8 full level  
**E21B 44/00** (2006.01); **E21B 10/00** (2006.01); **E21B 41/00** (2006.01)

CPC (source: EP US)  
**E21B 10/00** (2013.01 - EP US)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005090749 A1 20050929**; AR 049874 A1 20060913; AT E472669 T1 20100715; CA 2568933 A1 20050929; CA 2568933 C 20100216; DE 602005022073 D1 20100812; EA 200601709 A1 20090630; EP 1769135 A1 20070404; EP 1769135 B1 20100630; MX PA06010149 A 20070511; MY 146878 A 20121015; NO 20064444 L 20061201; NO 20121314 L 20061201; NO 333866 B1 20131007; NO 335260 B1 20141027; TW 200601118 A 20060101; TW I262420 B 20060921; US 2005236184 A1 20051027; US 7258175 B2 20070821

DOCDB simple family (application)  
**US 2005009029 W 20050317**; AR P050101047 A 20050317; AT 05725869 T 20050317; CA 2568933 A 20050317; DE 602005022073 T 20050317; EA 200601709 A 20050317; EP 05725869 A 20050317; MX PA06010149 A 20050317; MY PI20051115 A 20050316; NO 20064444 A 20061002; NO 20121314 A 20121108; TW 94108206 A 20050317; US 80250704 A 20040317